APPENDIX

TABLES AND FORMULAS . 1. HEATS OF COMBUSTION (In. BECKEKT).

Combustible.		Product of Combustion.	Amount Burnt.	
			1 kg. yields Calories.	1 cbm. yields Calories.
Carbon .	02	2 CO .	2,387	
,,	cl	2C02 .	8,080	__
Carbon monoxide CO		co.2	2,440	3,063
Hydrogen	Ha	HaO water at 0° .	34,600	3,110
5 > *	Ho	H2O steam at 0° .	29,140	2,620
Methane .	OH,	f mllaO (vapour)	f	8,600
Ethelene .	) Q,! ^!	+nCOa) \ (gas) at 0° and 760 mm. j	11,980 t 11,295	14,185
Aluminium	Ala	ALA	7,090	—
Iron	Pe> >	9 Jj^Q	1 353	__
	Pe-2	Pe804	1,644	—
,,	l?ea	PeaO<j	1,796	—
Manganese	Mno	2 MnO . . .	1,724	----
?•	Mni	2MnOo.	2,115	—
Phosphorus	Pa	P305	5,965	—
Silicon	Si)	2Si02 . . .	7,830	—
Sulphur .	s;	2S02	2,221	,

2. DELATION BETWEEN VOLUME AND WEIGHT OF CERTAIN GASES AT 0° AND 760 MILLIMETRES PRESSURE.

• Volume of 1 kilogramme in cubic metres.

Air.	0.	N.	H.	CH4.	02H<.	CO.	C02.	SOa.	II2O.
0-7729	0-6991	0-7958	11-1236	1-3931	0-7998	0-7965	0-5055	0-34S2	1-2421

Weight of 1 cubic metre in kilogrammes.

Air.	0.	N.	H.	CH4.	CaH4.	CO.	COa.	SOa.	HaO.
1-2937	1-4304	1-2567	0-0899	0-7178	1-2503	1-2555	1-9781	2-8723	0-8051